EXHIBIT B



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UTILITY	Attorney Docket No.	S93-160 CON2	Total Pages	77					
PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	First Nam	First Named Inventor or Application Identifier							
	Cohen								
	Express Mail Label No. EV 159 436 544 US								
		Commissioner for	Patents						

	See MPEP	APPLICATION ELEN chapters 600 concerning utility pa			Addı	ress to: P.O. Ma	O. Box 1 ail Stop		APPLICATION
1. 🖾		nsmittal Form an original, and a duplicate for fe	[Total Pages e processing)	4]		D-ROM or CD-R in oppendix)	duplicate,	, large table o	r Computer Program
2. 🗵	Applica	nt claims Small Entity status, see 3	7 C.F.R. § 1.27		8. 🖾 N	ucleotide and/or Ami	no Acid :	Sequence Sub	omission
3. ⊠	Specific	ation	[Total Pages 47]		a. Computer R	eadable I	Form (CRF)	
	- Descri - Cross I - Statem	ed arrangement set forth below, Medive title of the Invention Reference to Related Applications ent Regarding Fed sponsored R&I nce to Microfiche Appendix	·		c	b. □Specification i. □ CD-ROM ii. ☑ paper c. □Statement verify	M or CD-	-R (2 copies); [Total pages	or 11 }
	- Backgr - Brief S	cound of the Invention ummary of the Invention description of the Drawings (if filed	1)		A	.CCOMPANYIN	G APP	LICATIO	N PARTS
	- Detaile	d Description of the Invention (inc	luding drawings, if filed)		9. 🗌 🛮 🗚	Assignment Papers (co	over shee	t & documen	t(s))
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4. ⊠		(s) (35 USC 113)	[Total Sheets 1		i	inglish Translation D		(if applicable)
5. ⊠	Oath or 1	Declaration	[Total Sheets 4]			nformation Disclosur tatement (IDS)/PTO-			Copies of IDS Citations
	a. 🔲	Newly executed (original or cop	у)		13.⊠ P	reliminary Amendme	ent	T	otal Sheets 5]
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6. 🖾	Applicati	on Data Sheet. See 37 CFR 1.76	[Total Sheets 2]			ther:			
18. If a C Data Shee	CONTINUI et under 37	NG APPLICATION, check appr CFR 1.76:	opriate box and supply the re	equisite	e information E	pelow and in a prelim	iinary am	iendment, or i	n an Application
⊠ Contin	nuation	☐ Divisional ☐ Continu	ation-in-part (CIP) of	prior a	application N	io.: 09/804,690	filed N	farch 12, 20	01 .
Prior appl	ication info	rmation: Examiner:	Misook Yu			Group Art Unit:	16	542	
5b, is con	sidered a p	ON OR DIVISIONAL APPS only art of the disclosure of the accomon when a portion has been inac	panying continuation or d lvertently omitted from the	ivision subm	al application itted applicat	and is hereby incorion parts.	h or deci rporated	laration is su by reference	pplied under Box 2. The incorporation
			19. CORRESPON	DEN	CE ADDR	ESS			
	□ Custo	mer Number	Insert C	ustome	er No.		or 🛭 Co	orresponden	ce address below
NAME		Bertram I. Rowland, Esq., La	ımen Intellectual Propert	y Serv	ices, Inc.				1
ADDRESS	3	2345 Yale Street, 2 nd Floor							
CITY		Palo Alto			STATE	California		ZIP CODE	94306
COUNTR	γ	U.S.A.	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		TELEPHONE	(650) 424-0100)	FAX	(650) 424-0141

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

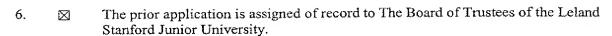
Prio	r application:	Examiner	Misook Yu
		Art Unit	1642
		Conf. No.	1876
P.O. Mai	nmissioner for Patents . Box 1450 I Stop PATENT APPLICA kandria, VA 22313-1450	ATION	
Sir:			
pend	This is a reque ling U.S. application no. 0		continuation divisional application under 37 CFR § 1.53(b) of d March 12, 2001
of	Stanley COHEN and Lim	iin LI	
*		(invent	or(s) currently of record in prior application)
for	MAMMALIAN TUMO	OR SUSCEPTI	BILITY GENES AND THEIR USES
			(title of invention)

1. The filing fee is calculated below in view of the Preliminary Amendment referred to in paragraph 2 below:

PATENT APPLICATION FEE VALUE

TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE	FEE
Total Claims	8	- 20	0	\$18.00 each	\$ 0.00
Independent	3	- 3	0	\$86.00 each	\$ 0.00
kardamandarah radahun gardadan dadah radah rada			Minimum Fee		\$ 770.00
			Multiple Depe	ndency Fee	
			If Applicable ((\$280.00)	\$ 290.00
				Total	\$ 1060.00
	Applicant qu	ualifies for the	e 50% Reduction	for Independent	
				Business Concern	\$ 530.00
				Total Filing Fee	\$ 530.00

- 2. Claims 1-23 have been canceled, without prejudice, and new Claims 24-28 have been added as set forth in the Preliminary Amendment Under 37 C.F.R. § 1.115 filed on even date herewith.
- 3. Please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is enclosed.
- 4. The specification has been amended to update the cross reference to related applications as set forth in the Preliminary Amendment Under 37 C.F.R. § 1.115 filed on even date herewith.
- 5. Informal drawings are enclosed (one figure on one sheet).



- 7. A copy of the Power of Attorney filed in the prior application no. 09/804,690 filed March 12, 2001 is enclosed.
- 8. Additional enclosures or instruction: (a) Preliminary Amendment Under 37 C.F.R. § 1.115; and (b) Application Data Sheet Under 37 C.F.R. § 1.76.

Respectfully submitted,

By: Stophe S. W. , Rg. No. 43, 171

Date: October 29, 2003

20,015

Bertram I. Rowland

LUMEN INTELLECTUAL PROPERTY

SERVICES, INC.

2345 Yale Street, 2nd Floor Palo Alto, California 94306

(650) 424-0100

Express Mail No. EV 159 436 544 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Prior	application:	Examiner	Misook Yu
		Art Unit	1642
		Conf. No.	1876
P.O. Mail	missioner for Patents Box 1450 Stop PATENT APPLICA' andria, VA 22313-1450	TION	
Sir: pend	This is a requesting U.S. application no. 09	st for filing a 0/804,690 file	⊠ continuation ☐ divisional application under 37 CFR § 1.53(b) of d March 12, 2001
of	Stanley COHEN and Limit	in LI	
-		(inven	tor(s) currently of record in prior application)
for	MAMMALIAN TUMO	R SUSCEPT	TBILITY GENES AND THEIR USES
	4		(title of invention)

1. The filing fee is calculated below in view of the Preliminary Amendment referred to in paragraph 2 below:

PATENT APPLICATION FEE VALUE

TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE		FEE
Total Claims	8	- 20	0	\$18.00 each	\$	0.00
Independent	3	- 3	0	\$86.00 each	\$	0.00
Minimum Fee					\$	770.00
	Multiple Dependency Fee If Applicable (\$280.00) Total					290.00
						1060.00
Applicant qualifies for the 50% Reduction for Independent Inventor, Nonprofit Organization or Small Business Concern						530.00
	m, cuttor, r			Total Filing Fee	\$	530.00

- 2. Claims 1-23 have been canceled, without prejudice, and new Claims 24-28 have been added as set forth in the Preliminary Amendment Under 37 C.F.R. § 1.115 filed on even date herewith.
- 3. Please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is enclosed.
- 4. The specification has been amended to update the cross reference to related applications as set forth in the Preliminary Amendment Under 37 C.F.R. § 1.115 filed on even date herewith.
- 5. Informal drawings are enclosed (one figure on one sheet).

ATTORNEY D KET NO. S93-160 CON2

- 7. A copy of the Power of Attorney filed in the prior application no. 09/804,690 filed March 12, 2001 is enclosed.
- 8. Additional enclosures or instruction: (a) Preliminary Amendment Under 37 C.F.R. § 1.115; and (b) Application Data Sheet Under 37 C.F.R. § 1.76.

Respectfully submitted,

By: Stephel S. W., Rg. No. 43, 171

Date: October 29, 2003

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20,013

Bertram I. Rowland LUMEN INTELLECTUAL PROPERTY

SERVICES, INC.

2345 Yale Street, 2nd Floor Palo Alto, California 94306

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Express Mail No. EV 159 436 544 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Cohen et al.

Confirmation No.: To be assigned

Application No.: To be assigned; Continuation Art Unit: To be assigned

of U.S. Application No. 09/804,690 filed

March 12, 2001

Filed: On even date herewith

Examiner: To be assigned

For: MAMMALIAN TUMOR

Attorney Docket No: S93-160 CON2

SUSCEPTIBILITY GENES AND

THEIR USES

PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

Mail Stop PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Pursuant to Rule 115 of the Rules of Practice, please enter the amendments set forth below and consider the remarks which follow. Applicants submit concurrently herewith: (a) a Request for Filing Continuation Application which includes a Patent Application Fee Value determination with provision for the appropriate fee; and (b) an Application Data Sheet Under 37 C.F.R. § 1.76.

AMENDMENTS TO THE SPECIFICATION begin on page 2 of this paper.

AMENDMENTS TO THE CLAIMS are reflected in the listing of the claims which begins on page 4 of this paper.

REMARKS begin on page 5 of this paper.

34398-48

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph starting on page 1, line 1, with the following:

This application is a continuation of U.S. Patent Application No. 09/804,690, filed March 12, 2001, which is a continuation of application Ser. No. 09/146,187, filed September 1, 1998, now U.S. Patent No. 6,248,523, which is a division of application Ser. No. 08/977,818, filed Nov. 25, 1997, now U.S. Pat. No. 5,807,995, which is a division of application Ser. No. 08/670,274, filed Jun. 13, 1996, now U.S. Pat. No. 5,891,668, which is a continuation-in-part of application Ser. No. 08/585,758, filed Jan. 16, 1996, U.S. Pat. No. 5,679,523 which claims the benefit of U.S. provisional patent application No. 60/006,856, filed Nov. 16, 1995, the disclosures of which are herein incorporated by reference.

Please replace the paragraph starting on page 6, line 3, with the following:

The full length human cDNA contains an 1140 1170 bp open reading frame, encoding a 380 390 amino acid protein (GenBank Accesion No. U82130). The human and mouse cDNAs are 86% identical at the nucleotide level. The predicted proteins are 94% identical and are distinguished by 20 amino acid mismatches and one gap. A coiled-coil domain (human TSG101 aa 231-302) and a proline-rich domain (human TSG101 aa 130-205, 32% proline) typical of the activation domains of transcription factors are highly conserved between the human and mouse proteins, with only one amino acid mismatch in each of the two domains. The leucine zipper motif in the coiled-coil domain of the human TSG101 protein is identical to the one in the mouse protein.

Please replace the paragraph starting on page 33, line 22, with the following:

A 1494 bp cloned human cDNA insert (which was deposited under the Budapest Treaty at the American Type Culture Collection, Manassas, VA 20110-2209 on June 17, 2003 with Accession No. PTA-5265) was termed full length TSG101 cDNA. Sequence analysis of this cDNA identified a 1140 bp open reading frame predicted to encode a 380 amino acid protein with a molecular mass of 42.841 kDa and a pI of 5.87. The human and mouse cDNAs are 86% identical at the nucleotide level. The predicted proteins are 94% identical and are distinguished by 20 amino acid mismatches and one gap. A coiled-coil domain (human TSG101 aa 231-302) and a proline-rich domain (human TSG101 aa 130-205, 32% proline) typical of the activation domains of transcription factors are highly conserved

between the human and mouse proteins, with only one amino acid mismatch in each of the two domains. The leucine zipper motif in the coiled-coil domain of the human TSG101 protein is identical to the one in the mouse protein. Other conserved features identified in human TSG101 include seven putative protein kinase C phosphorylation sites (aa 11, 38, 86, 89, 215, 225, 357), five potential ease in casein kinase II phosphorylation sites (aa 38, 210, 249, 265, 290) and three potential N-glycosylation sites (aa 44,150,297). Analysis of the human TSG101 cDNA and protein sequences by the BLAST program search of NCBI database did not reveal any significant homology with the sequences for any other human genes.

Please replace the nucleic acid sequence of SEQ ID NO:3 with the following:

```
1 gaagggtgtg cgattgtgtg ggacggtctg gggcagccca gcagcggctg accetctgcc
 61 tgcggggaag ggagtcgcca ggcggccgtc atggcggtgt cggagagcca gctcaagaaa
121 atggtgtcca agtacaaata cagagaccta actgtacgtg aaactgtcaa tgttattact
181 ctatacaaag atctcaaacc tgttttggat tcatatgttt ttaacgatgg cagttccagg
241 gaactaatga acctcactgg aacaatccct gtgccttata gaggtaatac atacaatatt
301 ccaatatgcc tatggctact ggacacatac ccatataatc cccctatctg ttttgttaag
361 cctactagtt caatgactat taaaacagga aagcatgttg atgcaaatgg gaagatatat
421 cttccttatc tacatgaatg gaaacaccca cagtcagact tgttggggct tattcaggtc
481 atgattgtgg tatttggaga tgaacctcca gtcttctctc gtcctatttc ggcatcctat
541 cogecatace aggeaacggg gecaccaaat acttectaca tgecaggeat gecaggtgga
601 atototocat accoatcogg atacoctoco aatocoagtg gttaccoagg otgtoottac
661 ccacctggtg gtccatatcc tgccacaaca agttctcagt accettctca gcctcctgtg
721 accaetytty gteccagtay gyatygeaca ateagegagy acaecateeg ageetetete
781 atctctgcgg tcagtgacaa actgagatgg cggatgaagg aggaaatgga tcgtgcccag
841 gcagagetea atgeettgaa acgaacagaa gaagaeetga aaaagggtea eeagaaaetg
901 gaagagatgg ttacccgttt agatcaagaa gtagccgagg ttgataaaaa catagaactt
961 ttgaaaaaga aggatgaaga actcagttct gctctggaaa aaatggaaaa tcagtctgaa
1021 aacaatgata tegatgaagt tateatteee acageteeet tatacaaaca gateetgaat
1081 ctgtatgcag aagaaaacgc tattgaagac actatctttt acttgggaga agccttgaga
1141 aggggegtga tagacetgga tgtetteetg aageatgtae gtettetgte eegtaaacag
1201 ttccagctga gggcactaat gcaaaaagca agaaagactg ccggtctcag tgacctctac
1261 tgacttetet gataceaget ggaggttgag etettettaa agtattette tetteettt
1321 atcagtaggt gcccagaata agttattgca gtttatcatt caagtgtaaa atattttgaa
1381 tcaataatat attttctgtt ttcttttggt aaagactggc ttttattaat gcactttcta
1441 tectetgtaa aetttttgtg etgaatgttg ggaetgetaa ataaaatttg tttt
```

Please replace the amino acid sequence of SEQ ID NO:4 with the following:

MAVSESQLKKMVSKYKYRDLTVRETVNVITLYKDLKPVLDSYVFNDGSSRELMNLTGTIPVPYRGNTYN
IPICLWLLDTYPYNPPICFVKPTSSMTIKTGKHVDANGKIYLPYLHEWKHPQSDLLGLIQVMIVVFGDEPPVFSR
PISASYPPYQATGPPNTSYMPGMPGGISPYPSGYPPNPSGYPGCPYPPGGPYPATTSSQYPSQPPVTTVGPSRDG
TISEDTIRASLISAVSDKLRWRMKEEMDRAQAELNALKRTEEDLKKGHQKLEEMVTRLDQEVAEVDKNIELLKKK
DEELSSALEKMENQSENNDIDEVIIPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVIDLDVFLKHVRLLSRK
OFOLRALMOKARKTAGLSDLY

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application: Listing of claims:

Claims 1-23 (Canceled).

- 24. (New) A substantially purified polypeptide comprising the full length human TSG101 protein encoded by a 1494 bp cloned human cDNA insert (SEQ ID NO:3).
- 25. (New) The purified polypeptide of claim 24, wherein said 1494 bp cloned human cDNA insert (SEQ ID NO:3) is deposited as ATCC Accession No. PTA-5265 in cloning vector pAMP1.
- 26. (New) A substantially purified polypeptide comprising the human TSG101 protein as described by the amino acid sequence of GenBank Accession No. U82130.
- 27. (New) A substantially purified polypeptide comprising the amino acid sequence of SEQ ID NO:4.
- 28. (New) A composition comprising a substantially purified polypeptide of any one of claims 24-27 in conjunction with a suitable pharmaceutical carrier.

REMARKS

The subject application is a continuation of co-pending U.S. Patent Application No. 09/804,690 filed March 12, 2001. The specification has been amended hereinabove to include the appropriate priority information. The specification has also been amended to recite the GenBank Accession No. of the nucleic acid sequence and amino acid sequence of the TSG101 cDNA and protein. The specification has further been amended to recite the ATCC deposit accession number of the clone containing the TSG101 cDNA. Finally, the specification has been amended with substitute sequences for SEQ ID NO:3 and SEQ ID NO:4.

Claims 1-23 have been canceled without prejudice, and new claims 24-28 have been added. Support for new claims 24-25 is found in the specification at page 15, lines 7-9; page 33, lines 22-23; page 34, line 13-18; and page 40, lines 3-6. Support for new claim 26 is found in the specification at page 6, lines 3-4; and page 15, lines 7-9. Support for new claim 27 is found in the specification at page 7, lines 7-8; and page 15, lines 7-9. Support for new claim 28 is found in the specification at page 22, lines 19-27. Upon entry of the above-made amendments, claims 24-28 will be pending.

No new matter has been added by these amendments. Entry of the foregoing amendments and consideration of the foregoing remarks are respectfully requested.

Respectfully submitted,

Date: October 29, 2003

B. Sepher K. Sollin, Reg. No. 43, 171

Bertran I. Rowland 20,015

Bertram I. Rowland (Reg Lumen Intellectual Property Services, Inc.

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